

Abstract of the Disclosure**Comparing the Position of Shared Objects**

The present invention provides a computer network configured to
5 define and update data structures within a shared computer-generated
environment, wherein a local instantiation 1001 of one of said data
structures is known as a duplicate master 805 and updates remote
instantiations 1004 of said data structure known as duplicas 804 according
to distance-based Position History-Based Dead Reckoning 906. Said
10 updating operation 906 according to distance-based PHBDR minimises the
amount of data 1402 transmitted for the purpose thereof and the quality
factor 1601 implemented according to an improved embodiment of the
present invention dynamically maximises (1501, 1502, 1503) the usage
made of the network bandwidth 702 available at any time.

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(Figure 14)

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